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PHELIMINARY DRAFF

PEASIBILITY STUDY

FOR

PROTOTYPE PLANS

FOR A

MULTEL-STORY INCHE MANUFACTURING PLANT

IN THE

SOUTH END LITERS FENELIAL AFEA
IN THE CITY OF BOSTON

PEPCPI NO. 3

August, 1963

Prepared for

BOSTON HEUEVALOPHANI AUTHORITY
BOSTON, MASSACHUSETTS



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ARCHITECTURAL, FUNCTIONAL, STRUCTURAL OBJECTIVES . D . INSTITERA-TIONS WITH RESPECT TO INTERNAL FLEXIBILITY AND SUPTABBLERY FOR A WIDE VARIETY OF TENANTS

A previous report describes the problems that must be carefully analyzed by the Designer in order to produce a multi-story prototype for industrial use with a maximum flexibility that will meet the functional requirements of a vice variety of prospective tenants.

The prototype must be of sound architectural and structural quality. In order to be economically fessible, it must be created at a cost that will possible restal of leased areas at a price which is competitive with existing available in-town properties, yet offer adequate facilities which existing properties lack.

We have previously outlined the basic physical features which will be required and which marks further examination, all calculated to produce this prototype. These features are lawse-tigated in detail in this report.

The accompanying drawings A=1, A=2 and A=3 show the floor plans of a prototype building, indicating 4 tenant spaces per floor, each tenant space approximately 5,250 square feet in area. A 4 story building will provide 16 tenant spaces; 6 stories = 24 apaces. The building is designed with unliver, square, 26' x 26' bays, 8 bays per tenant area. The 28' spacing is structurally economical, and provides the minimum number of columns in each tenant area.

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The S bay length of the building results in martists building length per structure without requiring an expansion joint. The depth of the building could be impressed up to 5 bays, offering 4 tenant areas up to 12,500 square feet per floor. We have delineated the prototype with the 4 bay depth buchuse we believe that tenant areas in the vicinity of 5,000 feet will more readily be leased. A single tenant may lease one or more adjacent tenant areas.

Each bank of tenent areas is equipped with a freight elevator with 10° x 10° car platform with $\theta_s 000$ prunes capacity, Class C loading, and speed of 75 feet per minute.

Each building will be equipped with 2 passenger elevators, each of 2,000 points, 12 passenger capacity, and speed of 200 feet per minute.

When tenent area is equipped till. Its our toilet facilities, separate for mimulacturing and office prosecult.

A circulating concider throughout who length of the building separates the manufacturing aboas from the office areas, serving as a sound look and affording manimum quiet in the office areas. The corridor and offices occupy one bay of the building depth. The floor slab in this bay is designed to sustain a live load of 100 pounds per square foot and a concentrated load of 2,000 pounds. The manufacturing eres is designed to sustain a live load of 150 pounds per square foot.

A continuous loading platform extends the entire length of the rear of the building at the ground floor level providing maximum facility for loading and unloading trucks at each bank

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of tenant areas. All freight elevators have direct classs to the leading platform.

Partitions enclosing convidors, statutesses, elevators, toilets and the separating partitions between tenant areas are permanent partitions of concrete block. Partitions in the office areas are movable, stock, modular, interchangeable units, installed to meet the tenants' requirements. They say be removed and re-erected at any time by building maintenance protouned to suit changing requirements. The 400 module is employed for office partitions and the suspended assumbtical ceiling system in the office areas. The floor covering and the ceiling will be installed prior to installation of the movable office partitions.

integrated with the ceiling suspension system. It will consist of two continuous recently into which interchanges is fluorescent fixture units may be plugged. The fluorescent with the ceiling. This system will offer the utwost lighting flexibility to meet requirements of any tenant. Light-ing intensity may very from 10 to 200 foot candles in any portion of the office area. Fixtures and fill-in sections may be removed, replaced, or re-arranged at any time without re-wiring or interrupting the ceiling such as is ordinarily required for addition or removal of partitions.

The accustical celling panels in the office areas will be the removable, drop-in type, supported on a tee suspension system, allowing full access to the space above the celling for installation or alteration of utilities that may be required.

A similar teiling system will be installed in the twen survivor except that lighting fixtures will be the usual permanent type.

Drawings A-8 and A-9 illustrate a few of the Damy office arrangements obtainable, using moveble partitions and the lighting system described above. Interchangeable closets and cabinets match the moveble partitions.

Lighting intensity may be increased on subdued as desired by any tenant for reception, office, or display and these areas can vary in size or be changed in configuration at any time to suit any tenants' requirements.

A space is provided adjacent to the willity shaft in all tenant office areas for an air conditioning unit which may be installed at the tenants: option.

Arrangements for work flow in the factory energy. The lighting system in the factory ever will consist of 5 continuous race—
ways per bay, surpended from the structural slab thick will be
left exposed and painted. Intervieweesable fluorescent fluture
units may be plugged into these receways, spaced as desired by the
temant to provide the lighting intensity he requires at any location and to assumedate changing lighting meeds. Additional office
or display may occupy a portion of the area as shown, if the temant
co desires. Partitions subdividing factory areas such as receiving, stock room, took orth, etc., are removable, interchangeable
units of wire mesh in metal channel frames, installed to meet the
temants' requirements.

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Story ledges for the building will be 1970. Lighting flature soffice will be 6747 above the floor, allowing symboxicately 2767 above the flatures to the slab coffet above for distribution of utilities that may be required by any tenant. Each tenant area has access to a utility shaft in the factory area. The shaft will contain standard utilities such as gar, not and cold water and dualness with values and "I" branches at any tenant can avail himself of those he may require. Access peaks will also be provided in the shaft to accommodate special utility requirements such as air enhance or conditioning systems. Utility shafts will extend through the roof and terminate in a panchouse in which fans or other equipment may be installed.

A portion of each building will somtain a basement as shown on Drawing 4-4. One Graight elevator will be carried down to this level. The clear height for the basement will be 10:0" except for the Boiler Room which will be 16:0". There will be a swarf space under the resembler of the building, assessible from the basement.

ment of the emberior of the building. A simple, prefatricated, insulated panel Dyston is employed for the office factor. The 4°0" modular width is again used and co-crdinated with the interior modular design of the office partition and calling system. Exterior faces of panels will be possessin enamel, interior face galvanized steel, painted. Panel core insulation to provide a "U" factor of not more than .20. The windows will be steel, projected, stock sash with vents arranged so cleaning may be accomplished from the inside.

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Windows and panels will be set in Stock, professionaled steel fraces. Windows and fraces will be galvanized, bonderised and field painted.

Drawing A=6 illustrates a variation of the above system, designed to provide opportunity for the erection of signs by tenants, yet preserve a dignified uniformity of anchibectural treatment. For this scheme, a sign outlet would be provided in the spandrels above certain windows as indicated. Removable signs to fit the spandrel would be installed and could be changed upon change of tenants.

A minimum amount of stone train will be used on this fecade. Remainder of this well, also the year and end walls of the building will be face brief bonded to 20 concrete block basis-up, total well thickness will be 120. Interior face of the concrete block will be exposed and painted. Wholever in the year and end walks of the building will also be stock, absoluprojected such with vents arranged for window cleaning from inside the building.

Interior walls of the main enteriors looby and vestibules will have a minister of architectural treatment on hors a combination of tentured and fored congrete block.

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